

01/02/2001  
PTO  
104109  
U.S. Patent and Trademark Office

Please type a plus sign (+) inside this box



01-10-02

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

A

UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. (to be assigned)

First Inventor Xinli Gu, et al.

Title RESOLVING LBIST TIMING VIOLATIONS

Express Mail Label No. EL049224012US

J104109  
10/04/02

01/04/02

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification [Total Pages 33]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table, or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 8]  
5. Oath or Declaration [Total Pages X]

a.  Newly executed (original or copy)  
b.  Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)

i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
a.  Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i.  CD-ROM or CD-R (2 copies); or  
ii.  paper  
c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9.  Assignment Papers (cover sheet & document(s))

10.  37 C.F.R. §3.73(b) Statement  Power of Attorney (when there is an assignee)

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17.  Other: Check for \$677 in addition to deposit account; Deposit Account Communication

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ /  
Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label  
(Insert Customer No. or Attach bar code label here)

Name	David B. Ritchie THELEN REID & PRIEST LLP				
Address	P.O. BOX 640640				
City	San Jose	State	CA	Zip Code	95164-0640
Country	USA	Telephone	408.292.5800		Fax 408.287.8040

Name (Print/Type)	David B. Ritchie	Registration No. (Attorney/Agent)	31,562
Signature			Date January 4, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

SPECIAL INSTRUCTIONS  
TO PTO

1. TAKE \$1465.00 FROM 04-0025
2. ENCLOSED is check for \$677.00

THE TOTAL IS \$ 2142.00

IF YOU NEED MORE CHARGE TO  
DEPOSIT ACCOUNT 50-1698

THANK YOU!

David B. Richards

REG. NO. 31, 562

Phone: 408 504 8333

Call if this is not CLEAR  
OR IF THERE IS A PROBLEM.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

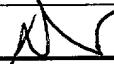
# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 991)

Complete if Known	
Application Number	(to be assigned)
Filing Date	January 4, 2002
First Named Inventor	Xinli Gu
Examiner Name	(to be assigned)
Group / Art Unit	(to be assigned)
Attorney Docket No.	CISCO-4509

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																																																														
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to.</p> <p>Deposit Account Number <input type="text" value="040025"/></p> <p>Deposit Account Name <input type="text" value="D'Allesandro &amp; Ritchie"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <i>TO DEPOSIT ACCT. 50-1698</i></p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>				<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td><input type="checkbox"/></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td><input type="checkbox"/></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td><input type="checkbox"/></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td><input type="checkbox"/></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td><input type="checkbox"/></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td><input type="checkbox"/></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td><input type="checkbox"/></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td><input type="checkbox"/></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td><input type="checkbox"/></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td><input type="checkbox"/></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td><input type="checkbox"/></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td><input type="checkbox"/></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td><input type="checkbox"/></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td><input type="checkbox"/></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td><input type="checkbox"/></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive – unavoidable</td><td><input type="checkbox"/></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive – unintentional</td><td><input type="checkbox"/></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td><input type="checkbox"/></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td><input type="checkbox"/></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td><input type="checkbox"/></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td><input type="checkbox"/></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td><input type="checkbox"/></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td><input type="checkbox"/></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td><input type="checkbox"/></td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td><input type="checkbox"/></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td><input type="checkbox"/></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td><input type="checkbox"/></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td><input type="checkbox"/></td></tr> <tr> <td colspan="6">Other fee (specify)</td> </tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3)</td> <td><input type="text" value="(\$ 40)"/></td> </tr> </tbody> </table>				Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath	<input type="checkbox"/>	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="checkbox"/>	139	130	139	130	Non-English specification	<input type="checkbox"/>	147	2,520	147	2,520	For filing a request for reexamination	<input type="checkbox"/>	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	<input type="checkbox"/>	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<input type="checkbox"/>	115	110	215	55	Extension for reply within first month	<input type="checkbox"/>	116	400	216	200	Extension for reply within second month	<input type="checkbox"/>	117	920	217	460	Extension for reply within third month	<input type="checkbox"/>	118	1,440	218	720	Extension for reply within fourth month	<input type="checkbox"/>	128	1,960	228	980	Extension for reply within fifth month	<input type="checkbox"/>	119	320	219	160	Notice of Appeal	<input type="checkbox"/>	120	320	220	160	Filing a brief in support of an appeal	<input type="checkbox"/>	121	280	221	140	Request for oral hearing	<input type="checkbox"/>	138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="checkbox"/>	140	110	240	55	Petition to revive – unavoidable	<input type="checkbox"/>	141	1,280	241	640	Petition to revive – unintentional	<input type="checkbox"/>	142	1,280	242	640	Utility issue fee (or reissue)	<input type="checkbox"/>	143	460	243	230	Design issue fee	<input type="checkbox"/>	144	620	244	310	Plant issue fee	<input type="checkbox"/>	122	130	122	130	Petitions to the Commissioner	<input type="checkbox"/>	123	50	123	50	Processing fee under 37 CFR 1.17 (q)	<input type="checkbox"/>	126	180	126	180	Submission of Information Disclosure Stmt	<input type="checkbox"/>	581	40	581	40	Recording each patent assignment per property (times number of properties)	<input type="checkbox"/>	146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	<input type="checkbox"/>	149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	<input type="checkbox"/>	179	740	279	370	Request for Continued Examination (RCE)	<input type="checkbox"/>	169	900	169	900	Request for expedited examination of a design application	<input type="checkbox"/>	Other fee (specify)						*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)		<input type="text" value="(\$ 40)"/>
Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																													
105	130	205	65	Surcharge - late filing fee or oath	<input type="checkbox"/>																																																																																																																																																																																													
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="checkbox"/>																																																																																																																																																																																													
139	130	139	130	Non-English specification	<input type="checkbox"/>																																																																																																																																																																																													
147	2,520	147	2,520	For filing a request for reexamination	<input type="checkbox"/>																																																																																																																																																																																													
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	<input type="checkbox"/>																																																																																																																																																																																													
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<input type="checkbox"/>																																																																																																																																																																																													
115	110	215	55	Extension for reply within first month	<input type="checkbox"/>																																																																																																																																																																																													
116	400	216	200	Extension for reply within second month	<input type="checkbox"/>																																																																																																																																																																																													
117	920	217	460	Extension for reply within third month	<input type="checkbox"/>																																																																																																																																																																																													
118	1,440	218	720	Extension for reply within fourth month	<input type="checkbox"/>																																																																																																																																																																																													
128	1,960	228	980	Extension for reply within fifth month	<input type="checkbox"/>																																																																																																																																																																																													
119	320	219	160	Notice of Appeal	<input type="checkbox"/>																																																																																																																																																																																													
120	320	220	160	Filing a brief in support of an appeal	<input type="checkbox"/>																																																																																																																																																																																													
121	280	221	140	Request for oral hearing	<input type="checkbox"/>																																																																																																																																																																																													
138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="checkbox"/>																																																																																																																																																																																													
140	110	240	55	Petition to revive – unavoidable	<input type="checkbox"/>																																																																																																																																																																																													
141	1,280	241	640	Petition to revive – unintentional	<input type="checkbox"/>																																																																																																																																																																																													
142	1,280	242	640	Utility issue fee (or reissue)	<input type="checkbox"/>																																																																																																																																																																																													
143	460	243	230	Design issue fee	<input type="checkbox"/>																																																																																																																																																																																													
144	620	244	310	Plant issue fee	<input type="checkbox"/>																																																																																																																																																																																													
122	130	122	130	Petitions to the Commissioner	<input type="checkbox"/>																																																																																																																																																																																													
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	<input type="checkbox"/>																																																																																																																																																																																													
126	180	126	180	Submission of Information Disclosure Stmt	<input type="checkbox"/>																																																																																																																																																																																													
581	40	581	40	Recording each patent assignment per property (times number of properties)	<input type="checkbox"/>																																																																																																																																																																																													
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	<input type="checkbox"/>																																																																																																																																																																																													
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	<input type="checkbox"/>																																																																																																																																																																																													
179	740	279	370	Request for Continued Examination (RCE)	<input type="checkbox"/>																																																																																																																																																																																													
169	900	169	900	Request for expedited examination of a design application	<input type="checkbox"/>																																																																																																																																																																																													
Other fee (specify)																																																																																																																																																																																																		
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)		<input type="text" value="(\$ 40)"/>																																																																																																																																																																																												
<p>2. EXTRA CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>91</td> <td>-20 **</td> <td>= 71</td> <td>X 18 = 1278</td> </tr> <tr> <td>Independent Claims</td> <td>4</td> <td>-3 **</td> <td>= 1 X 84 = 84</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>X = 0</td> </tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	91	-20 **	= 71	X 18 = 1278	Independent Claims	4	-3 **	= 1 X 84 = 84	Multiple Dependent			X = 0	<p>SUBTOTAL (1) <input type="text" value="(\$ 740)"/></p> <p>SUBTOTAL (2) <input type="text" value="(\$ 1362)"/></p>																																																																																																																																																																														
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																															
91	-20 **	= 71	X 18 = 1278																																																																																																																																																																																															
Independent Claims	4	-3 **	= 1 X 84 = 84																																																																																																																																																																																															
Multiple Dependent			X = 0																																																																																																																																																																																															
<p>**or number previously paid, if greater; For Reissues, see above</p>																																																																																																																																																																																																		

SUBMITTED BY		Complete (if applicable)			
Name (Print/Type)	David B. Ritchie	Registration No. Attorney/Agent)	31,562	Telephone	408.292.5800
Signature				Date	January 4, 2002

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Xinli Gu, et al.  
SERIAL NO.: [NOT YET ASSIGNED]  
FILING DATE: January 4, 2002  
TITLE: RESOLVING LBIST TIMING VIOLATIONS  
EXAMINER: [NOT YET ASSIGNED]  
ART UNIT: [NOT YET ASSIGNED]

---

**CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service as Express Mail EL049224012US Mail in an envelope addressed to: U.S. Patent & Trademark Office, P.O. Box 2327, Arlington, VA 22202-0327, on the date printed below:

Date: 1/4/02 Name: Sharon E. Byam  
Sharon E. Byam

---

COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

**DEPOSIT ACCOUNT COMMUNICATION**

The Commissioner is hereby authorized to charge any additional fees beyond the \$2,142.00 authorized by the papers filed herewith or credit any overpayment to Deposit Account No. 50-1698, account name Thelen Reid & Priest LLP.

Respectfully submitted,  
THELEN REID & PRIEST LLP



---

Dated: January 4, 2002

David B. Ritchie  
Reg. No. 31,562

THELEN REID & PRIEST LLP  
P.O. Box 640640  
San Jose, CA 95164-0640  
Tel.: (408) 292-5800  
Fax: (408) 287-8040

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

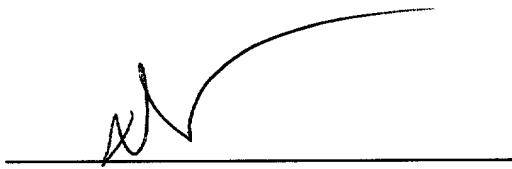
**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor	Xinli Gu, et al
Title	RESOLVING LBIST TIMING VIOLATIONS
Atty Docket Number	CISCO-4509

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

January 4, 2002

Date



Signature

David B. Ritchie, Reg.No. 31562

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.